

## Safety Data Sheet

according to UK REACH Regulation

### Xylene - Peanut Oil

Revision date: 16.08.2023

Product code: 13237.xxxxx

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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Xylene - Peanut Oil

UFI: FFN5-W193-A003-X6U2

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Use of the substance/mixture

Use as laboratory reagent. Intended for scientific research and development.

#### Uses advised against

Any non-intended use.

### 1.3. Details of the supplier of the safety data sheet

Company name: MORPHISTO GmbH  
Street: Schumannstr. 142/144  
Place: D-63069 Offenbach  
Telephone: +49 (0) 69 / 400 3019-60      Telefax: +49 (0) 69 / 400 3019-64  
E-mail: info@morphisto.de  
Contact person: Morphisto GmbH  
E-mail: gefahrstoffmanagement@morphisto.de  
Internet: http://www.morphisto.de

### 1.4. Emergency telephone number:

Poison Information Center Mainz, Germany, Tel: +49(0)6131/19240

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### GB CLP Regulation

Flam. Liq. 3; H226  
Acute Tox. 4; H332  
Asp. Tox. 1; H304  
Skin Irrit. 2; H315  
Eye Irrit. 2; H319  
STOT SE 3; H335  
STOT RE 2; H373

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### GB CLP Regulation

#### Hazard components for labelling

xylene  
ethylbenzene

Signal word: Danger

#### Pictograms:



#### Hazard statements

H226 Flammable liquid and vapour.  
H304 May be fatal if swallowed and enters airways.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.

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|      |  |
|------|--|
| H332 | Harmful if inhaled.  |
| H335 | May cause respiratory irritation.                                  |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

#### Precautionary statements

|           |  |
|-----------|--|
| P210      | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P260      | Do not breathe mist/vapours/spray.   |
| P280      | Wear protective gloves/protective clothing/eye protection/face protection.                     |
| P301+P310 | IF SWALLOWED: Immediately call a POISON CENTER/doctor.   |
| P331      | Do NOT induce vomiting.  |
| P332+P313 | If skin irritation occurs: Get medical advice/attention.                                       |
| P337+P313 | If eye irritation persists: Get medical advice/attention.                                      |

#### Labelling of packages where the contents do not exceed 125 ml

**Signal word:** Danger

**Pictograms:**



#### Hazard statements

H304

#### Precautionary statements

P301+P310-P331

#### 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulating and toxic (PBT) or very persistent and very bioaccumulating (vPvB) at levels of 0.1% or higher. Ecological information: The substance/mixture does not contain any components that are considered to be hazardous according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in amounts of 0.1 % or more have endocrine disrupting properties. Toxicological information: The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 in quantities of 0.1 % or more have endocrine disrupting properties.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

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**Hazardous components**

| CAS No    | Chemical name   |              |                  | Quantity    |
|-----------|---|--------------|------------------|-------------|
|           | EC No   | Index No     | REACH No         |             |
|           | Classification (GB CLP Regulation)  |              |                  |             |
| 1330-20-7 | xylene  |              |                  | 35 - < 40 % |
|           | 215-535-7   | 601-022-00-9 | 01-2119488216-32 |             |
|           | Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1; H226 H332 H312 H315 H319 H335 H373 H304 |              |                  |             |
| 100-41-4  | ethylbenzene  |              |                  | 10 - < 15 % |
|           | 202-849-4   | 601-023-00-4 | 01-2119489370-35 |             |
|           | Flam. Liq. 2, Acute Tox. 4, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 3; H225 H332 H373 H304 H412   |              |                  |             |
| 108-88-3  | toluene   |              |                  | < 1 %       |
|           | 203-625-9   | 601-021-00-3 | 01-2119471310-51 |             |
|           | Flam. Liq. 2, Repr. 2, Skin Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 3; H225 H361d H315 H336 H373 H304 H412                   |              |                  |             |

Full text of H and EUH statements: see section 16.

**Specific Conc. Limits, M-factors and ATE**

| CAS No    | EC No     | Chemical name  | Quantity    |
|-----------|-----------|--|-------------|
|           |           | Specific Conc. Limits, M-factors and ATE   |             |
| 1330-20-7 | 215-535-7 | xylene   | 35 - < 40 % |
|           |           | inhalation: LC50 = 6700 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 12126 mg/kg; oral: LD50 = 3523 mg/kg |             |
| 100-41-4  | 202-849-4 | ethylbenzene   | 10 - < 15 % |
|           |           | inhalation: LC50 = 17,2 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: LD50 = 15400 mg/kg; oral: LD50 = 3500 mg/kg |             |
| 108-88-3  | 203-625-9 | toluene  | < 1 %       |
|           |           | inhalation: LC50 = 28,1 mg/l (vapours); dermal: LD50 = >5000 mg/kg; oral: LD50 = 5580 mg/kg  |             |

**Further Information**

This product contains no substances of very high concern (SVHC) (>0,1%) which are included in the Candidate List according to Article 59 of REACH.

**SECTION 4: First aid measures**
**4.1. Description of first aid measures**
**General information**

Remove affected person from the danger area and lay down. Provide fresh air. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Remove contaminated, saturated clothing immediately.

**After inhalation**

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/.

**After contact with skin**

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary. If skin irritation occurs: Get medical advice/attention.

**After contact with eyes**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately. Rinse immediately carefully and thoroughly with eye-bath or water. If eye irritation

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persists: Get medical advice/attention.

**After ingestion**

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Rinse mouth thoroughly with water. Immediately call a POISON CENTER/doctor/. Let water be drunk in little sips (dilution effect). Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs.

**4.2. Most important symptoms and effects, both acute and delayed**

Symptoms of poisoning may develop several hours following exposure. Victim should be under medical observation for at least 48 hours after exposure.

**4.3. Indication of any immediate medical attention and special treatment needed**

First Aid, decontamination, treatment of symptoms.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder. Co-ordinate fire-fighting measures to the fire surroundings.

**Unsuitable extinguishing media**

Water. High power water jet.

**5.2. Special hazards arising from the substance or mixture**

Flammable. Vapours can form explosive mixtures with air. In case of fire may be liberated: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

**Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

**6.2. Environmental precautions**

Do not allow uncontrolled discharge of product into the environment. Explosion risk. Do not allow to enter into surface water or drains.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

**6.3. Methods and material for containment and cleaning up****For cleaning up**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

**Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clear contaminated areas thoroughly.

**6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Wear suitable protective clothing. ( See section 8. ). Avoid contact with skin, eyes and clothes. Take off contaminated clothing and wash it before reuse. Always close containers tightly after the removal of product. Make sure spills can be contained (e.g. sump pallets or kerbed areas).

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air. Wear anti-static footwear and clothing Use only antistatically equipped (spark-free) tools. Have fire-extinguishers in readiness before opening containers.

**Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff. Always close containers tightly after the removal of product.

**Further information on handling**

Flammable vapours can accumulate in head space of closed systems.

When using do not eat, drink, smoke, sniff. This material can be ignited by heat, sparks, flames, or other sources of ignition (e.g., static electricity, pilot lights, mechanical/electrical equipment, and electronic devices such as cell phones, computers, calculators, and pagers which have not been certified as intrinsically safe).

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep locked up. Protect from sunlight.

Suitable material for Container: Stainless steel.

Unsuitable material:PVC (Polyvinyl chloride). Other general rubber products. PE (polyethylene).

**Hints on joint storage**

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances. Oxidizing substances. Food and fodder

**Further information on storage conditions**

Store small packages in a suitable, robust cabinet.Recommended storage temperature: 15-25 °C.

**7.3. Specific end use(s)**

No information available.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

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#### Exposure limits (EH40)

| CAS No    | Substance             | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|-----------|-----------------------|-----|-------------------|-----------|---------------|--------|
| 100-41-4  | Ethylbenzene          | 100 | 441               |           | TWA (8 h)     | WEL    |
|           |                       | 125 | 552               |           | STEL (15 min) | WEL    |
| 108-88-3  | Toluene               | 50  | 191               |           | TWA (8 h)     | WEL    |
|           |                       | 100 | 384               |           | STEL (15 min) | WEL    |
| 1330-20-7 | Xylene: mixed isomers | 50  | 220               |           | TWA (8 h)     | WEL    |
|           |                       | 100 | 441               |           | STEL (15 min) | WEL    |

#### Biological Monitoring Guidance Values (EH40)

| CAS No    | Substance                           | Parameter                         | Value        | Test material | Sampling time |
|-----------|-------------------------------------|-----------------------------------|--------------|---------------|---------------|
| 1330-20-7 | Xylene, o-, m-, p- or mixed isomers | methyl hippuric acid (creatinine) | 650 mmol/mol | urine         | Post shift    |

#### DNEL/DMEL values

| CAS No    | Substance    | DNEL type              | Exposure route | Effect   | Value                 |
|-----------|--------------|------------------------|----------------|----------|-----------------------|
| 1330-20-7 | xylene       | Worker DNEL, acute     | inhalation     | local    | 289 mg/m <sup>3</sup> |
|           |              | Worker DNEL, acute     | inhalation     | systemic | 289 mg/m <sup>3</sup> |
|           |              | Worker DNEL, long-term | inhalation     | systemic | 77 mg/m <sup>3</sup>  |
|           |              | Worker DNEL, long-term | dermal         | systemic | 180 mg/kg bw/day      |
| 100-41-4  | ethylbenzene | Worker DNEL, acute     | inhalation     | local    | 293 mg/m <sup>3</sup> |
|           |              | Worker DNEL, long-term | inhalation     | systemic | 77 mg/m <sup>3</sup>  |
|           |              | Worker DNEL, long-term | dermal         | systemic | 180 mg/kg bw/day      |
| 108-88-3  | toluene      | Worker DNEL, long-term | dermal         | systemic | 384 mg/kg bw/day      |
|           |              | Worker DNEL, long-term | inhalation     | local    | 192 mg/m <sup>3</sup> |
|           |              | Worker DNEL, long-term | inhalation     | systemic | 192 mg/m <sup>3</sup> |
|           |              | Worker DNEL, acute     | inhalation     | local    | 384 mg/m <sup>3</sup> |
|           |              | Worker DNEL, acute     | inhalation     | systemic | 384 mg/m <sup>3</sup> |

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**PNEC values**

| CAS No   | Substance    | Value       |
|--|--------------|-------------|
| Environmental compartment                        |              |             |
| 1330-20-7  | xylene       |             |
| Freshwater                                       |              | 0,327 mg/l  |
| Freshwater (intermittent releases)               |              | 0,327 mg/l  |
| Marine water                                     |              | 0,327 mg/l  |
| Marine water (intermittent releases)             |              | 0,327 mg/l  |
| Freshwater sediment                              |              | 12,46 mg/kg |
| Marine sediment                                  |              | 12,46 mg/kg |
| Micro-organisms in sewage treatment plants (STP) |              | 6,58 mg/l   |
| Soil   |              | 2,31 mg/kg  |
| 100-41-4   | ethylbenzene |             |
| Freshwater                                       |              | 0,1 mg/l    |
| Freshwater (intermittent releases)               |              | 0,1 mg/l    |
| Marine water                                     |              | 0,01 mg/l   |
| Marine water (intermittent releases)             |              | 0,1 mg/l    |
| Freshwater sediment                              |              | 13,7 mg/kg  |
| Marine sediment                                  |              | 1,37 mg/kg  |
| Micro-organisms in sewage treatment plants (STP) |              | 9,6 mg/l    |
| Soil   |              | 2,68 mg/kg  |
| 108-88-3   | toluene      |             |
| Freshwater                                       |              | 0,68 mg/l   |
| Marine water                                     |              | 0,68 mg/l   |
| Freshwater sediment                              |              | 16,39 mg/kg |
| Marine sediment                                  |              | 16,39 mg/kg |
| Micro-organisms in sewage treatment plants (STP) |              | 13,61 mg/l  |
| Soil   |              | 2,89 mg/kg  |

**8.2. Exposure controls**

**Appropriate engineering controls**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Technical measures and the application of suitable work processes have priority over personal protection equipment. Provide washing facilities at the workplace, provide an eye shower or eyewash bottle and mark them. Use extractor hood (laboratory). Additional information: refer to chapter 7. No further action is necessary.

**Individual protection measures, such as personal protective equipment**
**Eye/face protection**

Suitable eye protection: goggles. Tightly sealed safety glasses. EN 166

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the

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specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Pull-over gloves of rubber. EN ISO 374

Suitable material:

FKM (fluororubber). (0,4 mm)

(penetration time (maximum wearing period):  $\geq 8$  h):

Before using check leak tightness / impermeability.

**Skin protection**

Use of protective clothing. Suitable protective clothing: Lab apron.

**Respiratory protection**

In case of inadequate ventilation wear respiratory protection. Respiratory protection necessary at:

Generation/formation of aerosols

exceeding exposure limit values

Suitable respiratory protective equipment: gas filtering equipment (EN 141). Typ: a

**Environmental exposure controls**

Do not allow uncontrolled discharge of product into the environment.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|   |  |                        |
|---|--|------------------------|
| Physical state:   | liquid   |                        |
| Colour:   | yellowish  |                        |
| Odour:  | hydrocarbons, aromatic.  |                        |
| Melting point/freezing point:                             |  | not determined         |
| Boiling point or initial boiling point and boiling range: |  | not determined         |
| Flammability:   |  | not determined         |
| Lower explosion limits:                                   |  | not determined         |
| Upper explosion limits:                                   |  | not determined         |
| Flash point:  |  | 25 °C                  |
| Auto-ignition temperature:                                |  | not determined         |
| Decomposition temperature:                                |  | not determined         |
| pH-Value:   |  | not determined         |
| Viscosity / kinematic:                                    |  | not determined         |
| Water solubility:   | The study does not need to be conducted because the substance is known to be insoluble in water. |                        |
| Solubility in other solvents                              |  |                        |
| not determined  |  |                        |
| Partition coefficient n-octanol/water:                    |  | not determined         |
| Vapour pressure:  |  | 8,21 hPa               |
| (at 20 °C)  |  |                        |
| Vapour pressure:  |  | not determined         |
| Density (at 20 °C):                                       |  | 0,89 g/cm <sup>3</sup> |
| Relative vapour density:                                  |  | not determined         |
| Particle characteristics:                                 |  | not applicable         |

**9.2. Other information****Information with regard to physical hazard classes****Explosive properties**

The product is not: Explosive. In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

Sustaining combustion:

Sustaining combustion



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#### Oxidizing properties

The product is not: oxidising.

#### Other safety characteristics

Evaporation rate:

not determined

Solid content:

not determined

#### Further Information

No information available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Flammable.

### 10.2. Chemical stability

Stable under normal storage and handling conditions.

### 10.3. Possibility of hazardous reactions

No information available.

### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. In case of warming: Ignition hazard. Vapours can travel considerable distances to a source of ignition where they can ignite, flash back, or explode. Vapours of flammable solvents can accumulate in the gas phase of closed container, especially during heat treatment. Therefore keep away from fire and sources of ignition.

### 10.5. Incompatible materials

Materials to avoid: Strong acid. Oxidizing agents, strong.

### 10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### Acute toxicity

Harmful if inhaled.

#### ATEmix calculated

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) 2937 mg/kg; ATE (inhalation vapour) 24,22 mg/l; ATE (inhalation dust/mist) 3,006 mg/l

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| CAS No    | Chemical name           |               |           |        |   |
|-----------|-------------------------|---------------|-----------|--------|---|
|           | Exposure route          | Dose          | Species   | Source | Method  |
| 1330-20-7 | xylene                  |               |           |        |   |
|           | oral                    | LD50<br>mg/kg | 3523      | Rat    | Study report (1986)<br>EU Method B.1                              |
|           | dermal                  | LD50<br>mg/kg | 12126     | Rabbit | Publication (1962)<br>Single dermal dose<br>under occlusion follo |
|           | inhalation (4 h) vapour | LC50          | 6700 mg/l | Rat    | Toxicol Appl<br>Pharmacol<br>33:543-558. (1975)<br>EU Method B.2  |
|           | inhalation dust/mist    | ATE           | 1,5 mg/l  |        |   |
| 100-41-4  | ethylbenzene            |               |           |        |   |
|           | oral                    | LD50<br>mg/kg | 3500      | Rat    | GESTIS  |
|           | dermal                  | LD50<br>mg/kg | 15400     | Rabbit | GESTIS  |
|           | inhalation (4 h) vapour | LC50          | 17,2 mg/l | Rat    |   |
|           | inhalation dust/mist    | ATE           | 1,5 mg/l  |        |   |
| 108-88-3  | toluene                 |               |           |        |   |
|           | oral                    | LD50<br>mg/kg | 5580      | Rat    |   |
|           | dermal                  | LD50<br>mg/kg | >5000     | Rabbit | GESTIS  |
|           | inhalation (4 h) vapour | LC50          | 28,1 mg/l | Rat    | GESTIS  |

**Irritation and corrosivity**

Causes skin irritation.

Causes serious eye irritation.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

May cause respiratory irritation. (xylene)

**STOT-repeated exposure**

May cause damage to organs through prolonged or repeated exposure. (xylene; ethylbenzene)

**Aspiration hazard**

May be fatal if swallowed and enters airways.

**11.2. Information on other hazards**
**Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**Other information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

**SECTION 12: Ecological information**
**12.1. Toxicity**

Based on available data, the classification criteria are not met.

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| CAS No    | Chemical name            |             |           |         |                                      |  |
|-----------|--------------------------|-------------|-----------|---------|--------------------------------------|--|
|           | Aquatic toxicity         | Dose        | [h]   [d] | Species | Source                               | Method   |
| 1330-20-7 | xylene                   |             |           |         |                                      |  |
|           | Acute fish toxicity      | LC50        | 4,6 mg/l  | 96 h    | Oncorhynchus mykiss                  | ECHA   |
|           | Acute algae toxicity     | ErC50       | 4,6 mg/l  | 72 h    | Pseudokirchneriella subcapitata      | ECHA   |
|           | Acute crustacea toxicity | EL50 mg/l   | > 3,4     | 48 h    | Ceriodaphnia dubia                   | Ecotoxicology and Environmental Safety 3<br>US EPA 600/4-91-003  |
|           | Fish toxicity            | NOEC mg/l   | 0,894     | 21 d    | Oncorhynchus mykiss                  | ECHA   |
|           | Crustacea toxicity       | NOEC mg/l   | 0,96      | 7 d     | Ceriodaphnia dubia                   | ECHA   |
|           | Acute bacteria toxicity  | (EC50 mg/l) | > 175     | 0,5 h   | Activated sludge                     | Research Journal WPCF 60(10) 1850-1856 ( )<br>OECD Guideline 209 |
| 100-41-4  | ethylbenzene             |             |           |         |                                      |  |
|           | Acute fish toxicity      | LC50        | 4,2 mg/l  | 96 h    | Oncorhynchus mykiss (Rainbow trout)  | ECHA   |
|           | Acute algae toxicity     | ErC50       | 3,6 mg/l  | 96 h    | Pseudokirchneriella subcapitata      | GESTIS   |
|           | Acute crustacea toxicity | EC50 mg/l   | 1,85      | 48 h    | Daphnia magna (Big water flea)       | ECHA   |
|           | Crustacea toxicity       | NOEC        | 1 mg/l    | 7 d     | Ceriodaphnia dubia (water flea)      | ECHA   |
| 108-88-3  | toluene                  |             |           |         |                                      |  |
|           | Acute fish toxicity      | LC50 mg/l   | 31,7      | 96 h    | Pimephales promelas (fathead minnow) | suppliers SDS.   |
|           | Acute algae toxicity     | ErC50 mg/l  | 12,5      | 72 h    | Selenastrum capricornutum            | GESTIS   |
|           | Acute crustacea toxicity | EC50 mg/l   | 9,24      | 48 h    | Daphnia magna (Big water flea)       | suppliers SDS.   |

#### 12.2. Persistence and degradability

The product has not been tested.

| CAS No    | Chemical name   |       |    |   |  |
|-----------|---|-------|----|---|--|
|           | Method  | Value | d  | Source  |  |
|           | Evaluation  |       |    |   |  |
| 1330-20-7 | xylene  |       |    |   |  |
|           | OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D               | 87,8% | 28 | OECD 301F / ISO 9408 / EEC 92/69 annex V, C.4-D |  |
|           | Easily biodegradable (concerning to the criteria of the OECD) |       |    |   |  |

#### 12.3. Bioaccumulative potential

The product has not been tested.

##### Partition coefficient n-octanol/water

| CAS No    | Chemical name | Log Pow |
|-----------|---------------|---------|
| 1330-20-7 | xylene        | 3,2     |
| 100-41-4  | ethylbenzene  | 3,15    |
| 108-88-3  | toluene       | 2,73    |

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**BCF**

| CAS No    | Chemical name | BCF        | Species             | Source               |
|-----------|---------------|------------|---------------------|----------------------|
| 1330-20-7 | xylene        | 5,5 - 12,2 | Oncorhynchus mykiss | Appl. Sci. Branch, E |

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

No information available.

**Further information**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Do not allow uncontrolled discharge of product into the environment.

**SECTION 13: Disposal considerations**
**13.1. Waste treatment methods**
**Disposal recommendations**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation. Consult the local waste disposal expert about waste disposal.

**List of Wastes Code - residues/unused products**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

**List of Wastes Code - used product**

160506 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing hazardous substances, including mixtures of laboratory chemicals; hazardous waste

**List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**Contaminated packaging**

Hazardous waste according to Directive 2008/98/EC (waste framework directive). Handle contaminated packages in the same way as the substance itself. Non-contaminated packages may be recycled.

**SECTION 14: Transport information**
**Land transport (ADR/RID)**

|  |                                  |
|--|----------------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1993                          |
| <b>14.2. UN proper shipping name:</b>    | FLAMMABLE LIQUID, N.O.S.(xylene) |
| <b>14.3. Transport hazard class(es):</b> | 3                                |
| <b>14.4. Packing group:</b>              | III                              |
| Hazard label:                            | 3                                |



Classification code: F1

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|                          |         |
|--------------------------|---------|
| Special Provisions:      | 274 601 |
| Limited quantity:        | 5 L     |
| Excepted quantity:       | E1      |
| Transport category:      | 3       |
| Hazard No:               | 30      |
| Tunnel restriction code: | D/E     |

**Inland waterways transport (ADN)**

|  |                                  |
|--|----------------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1993                          |
| <b>14.2. UN proper shipping name:</b>    | FLAMMABLE LIQUID, N.O.S.(xylene) |
| <b>14.3. Transport hazard class(es):</b> | 3                                |
| <b>14.4. Packing group:</b>              | III                              |
| Hazard label:                            | 3                                |



|                      |         |
|----------------------|---------|
| Classification code: | F1      |
| Special Provisions:  | 274 601 |
| Limited quantity:    | 5 L     |
| Excepted quantity:   | E1      |

**Marine transport (IMDG)**

|  |                                    |
|--|------------------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1993                            |
| <b>14.2. UN proper shipping name:</b>    | FLAMMABLE LIQUID, N.O.S.(·xylene·) |
| <b>14.3. Transport hazard class(es):</b> | 3                                  |
| <b>14.4. Packing group:</b>              | III                                |
| Hazard label:                            | 3                                  |



|                     |             |
|---------------------|-------------|
| Special Provisions: | 223 274 955 |
| Limited quantity:   | 5 L         |
| Excepted quantity:  | E1          |
| EmS:                | F-E, S-E    |

**Air transport (ICAO-TI/IATA-DGR)**

|  |                                    |
|--|------------------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1993                            |
| <b>14.2. UN proper shipping name:</b>    | FLAMMABLE LIQUID, N.O.S.(·xylene·) |
| <b>14.3. Transport hazard class(es):</b> | 3                                  |
| <b>14.4. Packing group:</b>              | III                                |
| Hazard label:                            | 3                                  |



|  |       |
|--|-------|
| Special Provisions:                    | A3    |
| Limited quantity Passenger:            | 10 L  |
| Passenger LQ:                          | Y344  |
| Excepted quantity:                     | E1    |
| IATA-packing instructions - Passenger: | 355   |
| IATA-max. quantity - Passenger:        | 60 L  |
| IATA-packing instructions - Cargo:     | 366   |
| IATA-max. quantity - Cargo:            | 220 L |

**14.5. Environmental hazards**

|                            |    |
|----------------------------|----|
| ENVIRONMENTALLY HAZARDOUS: | No |
|----------------------------|----|

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**14.6. Special precautions for user**

Warning: Combustible liquid. Refer to section 6-8

**14.7. Maritime transport in bulk according to IMO instruments**

not relevant

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 40, Entry 48

2010/75/EU (VOC): 50 % (445 g/l)

2004/42/EC (VOC): 50 % (445 g/l)

Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

**Additional information**

This preparation is hazardous in the sense of regulation (EC) No 1272/2008 [GHS].

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 2 - obviously hazardous to water

**15.2. Chemical safety assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

xylene

ethylbenzene

toluene

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 1,2,3,4,5,6,7,8,9,11,12,14,15,16.

06.02.2011; Rev. 1.0 Neuerstellung

15.07.2014; Rev. 1.1 Revision

17.02.2021; Rev. 1,2 Revision Changes in chapter: 1 - 16.

Rev. 2,0; 16.08.2023: general adjustment(s)

**Abbreviations and acronyms**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations

Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

OSHA: Occupational Safety and Health Administration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOEL: No observed effect level

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NOAEL: No observed adverse effect level  
 LOAEL: Lowest observed adverse effect level  
 NOAEC: No observed adverse effect level  
 LOAEC: Lowest observed adverse effect concentration  
 DNEL: Derived No Effect Level  
 PNEC: predicted no effect concentration  
 TSCA: Toxic Substances Control Act  
 IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER  
 NTP: National Toxicology Program  
 SARA: Superfund Amendments and Reauthorization Act  
 GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)  
 PBT: Persistent bioaccumulative toxic  
 SVHC: substance of very high concern  
 CLP: Classification, labelling and Packaging  
 REACH: Registration, Evaluation and Authorization of Chemicals  
 GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
 UN: United Nations  
 CAS: Chemical Abstracts Service  
 DNEL: Derived No Effect Level  
 DMEL: Derived Minimal Effect Level  
 PNEC: Predicted No Effect Concentration  
 ATE: Acute toxicity estimate  
 LL50: Lethal loading, 50%  
 EL50: Effect loading, 50%  
 EC50: Effective Concentration 50%  
 ErC50: Effective Concentration 50%, growth rate  
 NOEC: No Observed Effect Concentration  
 BCF: Bio-concentration factor  
 PBT: persistent, bioaccumulative, toxic  
 vPvB: very persistent, very bioaccumulative  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route  
 (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 RID: Regulations concerning the international carriage of dangerous goods by rail  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
 (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation  
 intérieures)  
 EmS: Emergency Schedules  
 MFAG: Medical First Aid Guide  
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
 IBC: Intermediate Bulk Container  
 VOC: Volatile Organic Compounds  
 For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>  
 For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety  
 assessment, chapter R.20 (Table of terms and abbreviations).

#### Classification for mixtures and used evaluation method according to GB CLP Regulation

| Classification      | Classification procedure |
|---------------------|--------------------------|
| Flam. Liq. 3; H226  | On basis of test data    |
| Acute Tox. 4; H332  | Calculation method       |
| Asp. Tox. 1; H304   | Calculation method       |
| Skin Irrit. 2; H315 | Calculation method       |
| Eye Irrit. 2; H319  | Calculation method       |
| STOT SE 3; H335     | Calculation method       |
| STOT RE 2; H373     | Calculation method       |

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**Relevant H and EUH statements (number and full text)**

|       |  |
|-------|--|
| H225  | Highly flammable liquid and vapour.                                |
| H226  | Flammable liquid and vapour.                                       |
| H304  | May be fatal if swallowed and enters airways.                      |
| H312  | Harmful in contact with skin.                                      |
| H315  | Causes skin irritation.  |
| H319  | Causes serious eye irritation.                                     |
| H332  | Harmful if inhaled.  |
| H335  | May cause respiratory irritation.                                  |
| H336  | May cause drowsiness or dizziness.                                 |
| H361d | Suspected of damaging the unborn child.                            |
| H373  | May cause damage to organs through prolonged or repeated exposure. |
| H412  | Harmful to aquatic life with long lasting effects.                 |

**Further Information**

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations. The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*